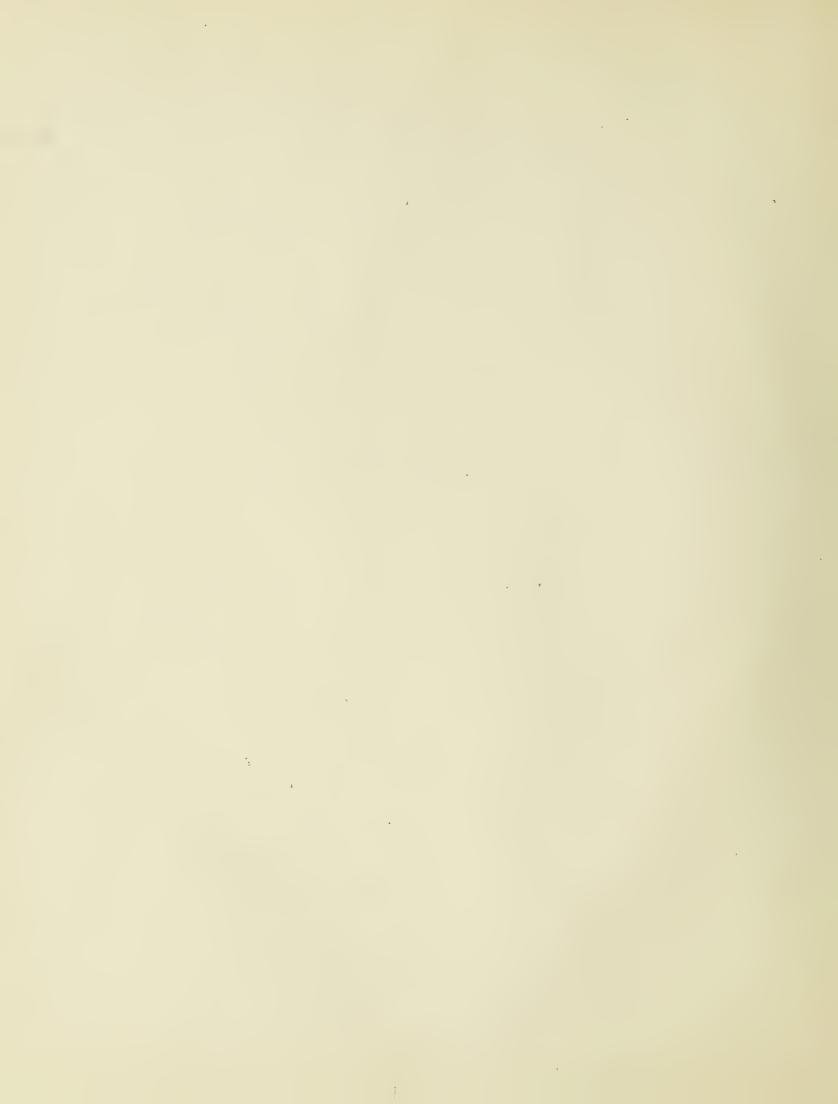


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with the authors Complements

A CATALOGUE

OF THE

FERNS INDIGENOUS TO CEYLON

According to the Homenclature of the 'Synopsis Filicum' of Hooker & Haker.

WITH NOTES, BY G. W. Male FAS. FRAS

B 2 A S D

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PREFACE.

Since the publication of Dr. Thwaites' Enumeratio,' several species, not previously discovered in Ceylon, have been added to the list of indigenous Ferns; and of those specified therein the names of several have been revised in the 'Synopsis Filicum,' the latest of Sir W. Hooker's works, the nomenclature of which is adopted in the herbarium at Kew. A complete list, comprising all the species hitherto discovered, according to the nomenclature in use at the great National Herbarium, seemed therefore desirable. The present little work is intended to supply this desideratum. It is further adapted to the use and convenience of the Ceylon botanist by notes and remarks on such of the species as present features of particular interest.

The habitats are nearly all given from the writer's own actual experience, and are therefore in many instances different from those mentioned in Dr. Thwaites' Enumeratio.' These were no doubt perfectly accurate at the time they were written, but it is probable the coffee-planter's axe has cleared away all traces of some of those old habitats, and other additional ones have been discovered. For the information contained in the Notes the writer is indebted to the Director of the Kew Royal Gardens for the access kindly afforded him to the copious suites of specimens there classified, and especially to Mr. Baker's kind and ready assistance in his references to the Herbarium. The writer feels that any acknowledgment of these favours would be incomplete if it did not comprise a record of the results for the use of other inquirers who may not be able to avail themselves of the advantages so generously afforded to him.



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AND BEDDOME'S TWO WORKS ON THE FERNS OF BRITISH INDIA AND OF	
Southern India ((Table)
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LIST OF THE GENERA OF FERNS.

1	Platyzoma
2	Gleichenia
3	Thyr sopter is
4	Cyathea
5	Hemitelia
6	Alsophila
7	Diacalpe
8	Matonia
9	Onoclea
10	Hy poderris
11	Woodsia
12	Sph aropter is
13	Dicksonia
14	Deparia
15	Loxsoma
16	Hymenophyllum
17	Trichomanes
18	Davallia
19	Cystopteris
20	Lindsaya
20^{*}	Dicty oxiphium
21	Adiantum
22	Ochropteris
23	Lonchitis
24	Hypolepis
25	Cheilanthes

Cassebeera
Onychium
Llavea
Cryptogramme
Pellœa
Pteris
Ceratopteris
Lomaria
Blechnum
Sadleria
Woodwardia
Doodia
Asplenium
Actiniopteris
Allantodia
Scolopendrium
Didymochlæna
Aspidium
Nephrodium
Nephrolepis
Oleandra
Fadyenia
Polypodium
Jamesonia
Noth och l @na

	v
53	Brainea
54	Meniscium
55	Antrophyum
56	Vittaria
57	Tænitis
58	Deymoglossum
52	Hemionitis
60	Acrostichum
61	Platycerium
62	Osmunda
63	Todea
64	Schizæa
65	Anemia
66	Mohria
67	Trochopter is
68	Lygodium
69	Angiopteris
70	Marattia
71	Danæa
72	Kaulfussia
73	Ophioglossum
74	Helminthostachy
75	Botrychium
lo .	

52 Gymnogramme

Those in *Italics* are not represented in Ceylon.

51 Monogramme

FERNS INDIGENOUS IN CEYLON.

Large tree-fern, 10 to 30 ft. high. Abundant in the forests of the Central Province, 3000 to 6000 ft. Scarce at Blackpool, Newera Ellia. Abundant at Kooroonda Oya, Matturattoo. Terraneous. Dies off during the N.E. monsoon. Large-fronded tree of low stature. Not common in forests of the Central Province, at 3000 to 5000 ft. Forests of the Forests of the Abundant in in the On trees in the forests of the Southern Province, 2000 to 4000 ft. NOTE.—The numbers in the first column of references to Hooker & Baker's 'Synopsis Filicum' are those of the species, not of the pages.

The numbers in the first column of references to Dr. Thwaite's 'Enumeratio' refer to the pages of that work. Those in the second column are the Ceylon Herbarium, or C. P. numbers.

The letters B & S, in the first column of references to Major Beddonie's works, distinguish between his 'Ferns of British India' and his 'Ferns of Southern India', and the numbers in the second Scrambles The word "Idem," in the second, third and fourth columns, signifies that the species is there described by the same name as that in the first column; otherwise the synonym under which it is the forests of the Central Province, 4500 to 6000 ft. Abundant at elevations above 5000 ft. Extremely abundant at all elevations. over small shrubs in the open. Large tree-fern, 10 to 20 ft. high. Small tree-fern, 3 to 5 ft. high. Small tree-fern, 5 to 7 ft. high. HABITAT, ETC. Central Province. Terraneous. Southern Province. Southern Province. 267 | H. Polyanthos, Sw. 261 | Cyathea Walkeræ 258 | Dennstædtia Del-[See Appendix] Beddome's Ferns of British & toidea, Moore SPECIES. Southern India. 59 | Idem Idem 259 Idem 60 Idem GLEICHENIACE Æ. SUB-ORDER 2. POLYPODIACE Æ. HYMENOPHYLLUM VOL PLATE 257 2. GLEICHENIA HEMITELIA ∞ Genus 13. DICKSONIA ALSOPHILA ∞ ∞ Ω $|\infty$ S GENUS 4. CYATHEA. GENUS 7. DIACALPE. 3360 | 3052 | 1401 1397 379 | Idem - C. P. 3106 1403 . 3282 396 A. Gigantea, Wall. 396 | Cyathea Walkeræ 389 | D. Deltoidea, Hk. Thwaites' Enumeratio. ı Addenda 39.6 Idem -Genus 5. 396 | Idem -GENUS 6. 396 | Idem 396 | Idem GENUS SUB-ORDER 1. GENUS 16. PAGE G. Rufinervis, Mart. G. Klotschii, Hk. G. Ferruginea, Bl. Idem A. Gigantea, Wall. G. Hermanni, Br. 24 | Cyathea Walkeræ 27 Idem D. Deltoidea, t. Hooker's Species Filicum. New species Idem Idem Idem VOL. PAGE 08 08 59 15 5451 53 ----- \vdash Wall. Baker Hk. & Gr. Hook. Blume. Blume. Hook: Thuaites. 16 | H. (AMPHICOSMIA) WALKERÆ column refer to the Plates of those works. G. (Mertensia) Dichotoma Hooker & Baker's Synopsis Filicum. 1 D. Aspidiodes 8 | H. Emersum 3 | C. Hookeri described is specified. | C. SINUATA A. GLABRA D. Scabra A. Crinita NO. 52 27 58

HABITAT, ETC.	On wet rocks in the forests of the Central Province, 2000 to 5000 ft. Common.	The typical form is rare. I have found it only at Rambodde, 4000 to 5000 ft., on trees and rocks in the forest. Var. Blumeanum is common on the Peacock, at Matale, and in the forests of the Southern Province, where it attains a very large size on wet rocks. Dies off during N.E. monsoon.	Abundant on rocks and trees in the forests of the Central and Southern Provinces, above 2500 ft.	Neesii, Hk. Common on rocks and trees in the forests of the Tunbridg., Smith Central and Southern Provinces, above 3000 ft.		Not uncommon on trees in the forests of the Southern Provinces, 2000 to 3000 ft.	On rocks and trees in the forests of Telgamma, also in Southern Province, 2000 to 4000 ft.	Common on rocks in the forests of the Central and Southern Provinces, about 4000 ft.	Not uncommon on rocks in the forests of the Sonthern Province, about 3000 ft.	On rocks and trees in the forests about Hewissa; also at Ambagamoa, Thw.	On trees in the forests of the Southern Provinces, 3000 to 4000 ft.	Ambagamoa district, Thu.	On trees in the forests of the Southern Province, 3000 to 4000 ft.	Common on rocks and trees in the forests of the Central and Southern Provinces, above 2000 ft.	Top of Telganma Pass, Kallibokka; and in forests of the Southern Province; on wet rocks.	Common in the forests of the Central and Southern Provinces, above 4000 ft.		Common on rocks and trees in the forests of the Central and Southern Provinces, above 1500 ft.	Ambawella Forest, below Hackgalla, about 5000 ft., on trees.
	S 9 Idem	B 280 Idem B 306 var. minor S 266 H. Blumeanum, Spr.	S 207 H. Crispatum, Wall.	$egin{array}{c c c} B & 279 & H. Neesii, Hk. \\ S & 265 & H. Tunbridg., Smith \\ \end{array}$	NES.	B 183 T. Henzaiense, Hk. [See Appendix]	B 275 Hym. Exiguum, Bedd.	S 6 T. Neilgherriense, Bd B 304 T. Muscoides, Sw.	B 179 Idem	S 262 Idem	S 264 Trich. Corticola, Hk.	S 208 Idem	S 263 T. Glaucofuscum, Hk.	B 283 Idem	S 7 T. Filicula [See Appendix]	S S Idem	IA.	S 12 Humata Pedata, J. Sm.	S 253 Humata Vestita, Bl.
hwaites' Enumeratio.	397 Idem 1390	397 Idem 3279, 3360 397 H. Blumeanum, Spr. 1391	397 H. Crispatum, Wall. 1895	897 H. Tunbridgense, Smith 2985	GENUS 17. TRICHOMANES	Addenda - 3972	Addenda - 3957	397 Idem 2986	Addenda - 3991	897 Idem 8329	397 Hym. Corticola, <i>Hk</i> . 3278	397 Idem 3361	397 T. Glaucofuscum, Hk. 3330	897 Idem 2985	Included with T. Proliferum	397 Idem 1396	GENUS 18. DAVALLIA	388 Idem 1383	388 Idem · · 3068
Hooker's Speci	1 109 Idem - pl. 38	1 106 Idem 104 H. Protrusum, Ht pl. 37	1 106 Idem 1 102 H.Crispatum, Wall. 1 102 H.Fimbriatum, J.Sm. pl. 36 J. Sm. pl. 36	1 99 Idem	0	1 New species 3972	New species	1 117 Idem	1 118 Idem - pl. 39	1 118 Idem pl. 39	1 119 Idem	1 120 Idem	1 139 Idem pl. 40 1 128 T. Glaucofuscum, 1 129 T. Album, Bl. [Hk.	1 124 Idem	1 124 Idem	1 133 Idem		1 154 Idem pl. 45	1 156 Idem pl. 41
ooker & Baker's Synopsis Filicum.	116 H. Exsertum - Wall.	18 Н. Рогхалтнов Sw.	21 H. Javanicum Spr.	70 H. Neesii Hook.		10 T. Motleyi V. & B.	14* T. Exiguum · Bed.	20 T. Muscoides Sw.	21 T. Parvulum Poiret	24 Т. Рвоцевким Вl.	27. T. Digitatum Sw.	42 T. Intramarginale Hk. & Gr.	46 T. Pallidum Bl.	48 T. Filicula Bory	49 T. Pyxidiferum L.	70 T. Rigidum Sw.		6 D. (HUMATA) PEDATA J. Sm.	7 D. (,,) Vestita - Bl.

In the Hunasgiria, Wattakelly and Etangwella forests, 3000 to 5000 ft., on rocks.	On rocks and trees in the forests of the Central and Southern Provinces. Common about 3000 to 4000 ft.	On Abbey Rocks, Mooroowa Corle, 5000 ft.	Singhe Raja forest, Thw. Matale, Gardner,	On rocks and trees in the forests of the Southern Province, 2000 to 4000 ft.	Common on rocks and trees in the forests of the Central Province, above 5000 ft.	On rocks, Vicarton and East Matale, at 2000 to 3000 ft.	On trees at Dooroomadella and Matale West, 2000 to 3000 ft.		Rangbodde, in forest, 3500 ft growing with D. Majuscula. Terraneous. 8 to 12 ft. high. Rare. Probably dies off part of the year.	Rangbodde, with D. Platyphylla. Rare. Probably dies off during part of the year.	Telgamma, 4000 ft.	Common at all elevations below 3000 ft on shady banks in Central, Western and Southern Provinces. In hedges at Kelani.	Abundant on moist banks above 3000 ft., in the Central Province.		Common on rocks and moist banks about Newera Ellia, and at high elevations in the forests of the Central Province. Delicious perfume when drying.	Not uncommon in the forests of the Central and Southern Provinces. Terraneous.	Very abundant in some forests of the Southern Province; also on the Peacock. Terrancous.	In swamps in the Hinidoon Corle.
Acrophorus	Acrophorus Affinis,		Lindsæa Repens, Thw .		Idem	Idem	Idem	Microlepia Strigosa,	Micro. Platyphylla, Moore	Micro. Proxima, Bl.	Microlepia Hirta, $Kaulf$	Micro. Polypodioides	Idem		Idem L. Lobbiana, Hook.	Idem L. Tenera, Dry.	L. Caudata, Hr.	Idem
10	252	178	209	20	10	18	17	255	13	254	256	15	16	•	23 28 28	216 24	217	215
	4 S	B	 Ω Ω		<u>σ</u>	∞	N N	ο 	N N	Ω Σ	Ω Ω	<u>α</u>	ω Ω	AYA	S H	\\ \text{\text{\$\alpha\$}}	ω Σ	S
3288	1384	3903	ens, 3389 1389	1385	3069	8078	3927	1386	3277	Bl. 3827	3272	oides, 1387–8	983	LINDSAYA	3070	3311 7. 1381	1380 1380	1379
1	1	da -	ea Rep Thw.	1		:	da -	1	1		8	Tpodi Jon	t		8	ra, Dr	Candata, Hk. 13	£
Idem -	Idem	Addenda	Lindsæa Repens, Thw. 33	Idem	Idem	Idem	Addenda	Idem	Idem	D. Proxima,	Idem	D. Poly	Idem	GENUS 20.	Idem	Idem - 3311 L. Tenera, Dry. 1381	L. Car	Idem
388	380		388	389	389	380	Ė	389	389	438	389	380	389	GEN	388 Idem	388 388 I	& & & &	388
Idem D. Chærophylla, Wall. pl. 51	Idem pl. 52	New species	D. Boryana, Pr. D. Hemiptera, Bory	Idem	Idem D. Preslii		Idem pl. 50	D. Khasiyana pl. 47 & D. Polypodiodes [57]	D. Lonchitidea, 1Vall. pl. 46	New species	Ldem	D. Polypodioid., Don D. Jamaicensis, Hk. D. Trichosticha, Hk.	Idem D. Chinensis, Sw.		Idem L. Lobbiana,	Idem - pl. 63 L. Tenera, Dry.	eis, Hr. Eis, Hr. Eise	Idem pl. 69
160	158		175	161	161 161	164 166 168	169	178	173		181	181 183 183	$\begin{array}{ c c c }\hline 186\\\hline 187\\\hline \end{array}$		208 205	211	214 214 215 215 208	209
	-			-			-	-	H								·	
20 D. (Leucostegia) Pulchra Don	22 D. (,,) AFFINIS Hk.	24 D. (") Trichoma- Noides Hk.	27 D. (Odontoloma) Repens	31 D. (Prosaptia) Emersoni Hk. & Gr.	32 D. (,,) CONTIGUA SW.	40 D. Elegans Sw.	47 D. Bullata Wall.	57 D. (Microlepia) Strigosa Sw.	58 D. (",) Platypityla Don	60 D. (,,) Majuscula	64 D. (") Hirta Klf.	65 D. (") Spelunce Baker	74 D. (Stenoloma) Tenuifolia Sir.		7 L. CULTRATA Sw.	16 L. Flabellulata - Dry.	17 L. Trapeziformis - Dry.	28 L. (Isoloma) Walkeræ Hh.

HABITAT, ETC.	Common in the forests of the Central Province, above 2000 ft. Terraneous.	Very common in the forests of the Central and Southern Provinces, at low elevations. Terraneous.	Hantane Peak. Kegalla. Rare. Terraneous. Probably dies off during the N.E. monsoon.		Common on old walls about Kaudy and Central Province. Very abundant on the Eastern Ranges down to Binteune.	Extremely abundant in the Central, Western and Southern Provinces, up to 2000 ft. On rocks, walls and dry banks. A. Rhizophorum at Matale and Kurunagalla.	On wet rocks about Hackgalla.	Common in the forests of the Central Province, up to 4000 ft. Terraneous, and on rocks.	Ouvah District, Thw.		On rocks and banks, Rattotta, Matale, Happootella and Ouvah, at low elevations.	Kurunagalla and Kallupaliane, Thw.	On rocks and banks, Western Province. Grows in great beauty on Pattawella Rock, near Colombo.	On rocks in the highest forests of the Central Province.—Silver Fern.		Very common on rocks and walls, up to 4000 ft. Mattoorattoo, Ambawella, Ouvah.	Summit of Wattakelly Hill. Terraneous. Probably dies off during part of the year.
Beddome's Ferns of British $\mathscr C$ Southern India.	Sehizol	S Schizoloma Ensifoliare B 29 Schizoloma Griffthianum, H. Sm.	S 206 L. Heterophylla, J. Sm.	JM.	S 1 Idem	S Idem	S 4 Idem	S 3 Idem	S 218 Idem	HES.	S 190 Idem	S 189 C. Varians, Hk.	S 188 Idem	S 191 Idem	Α.	S 37 Pteris Geraniifolia,	S 86 Pteris Boivini, Moon
Thwaites' Enumeratio.	Idem 982	988 L. Ensifolia, Sw. 1382	Addenda - 3861	GENUS 21. ADIANTUM	887 Idem 1323	987 Idem 978 887 A. Rhizophorum, Sw. 3102	887 Idem 1324	387 Idem 1325	887 Idem 8890	GENUS 25. CHEILANTHES	887 Idem 1820	987 C. Varians, Hk. 1321	387 Idem 1322	887 Idem - 2987	GENUS 30. PELLÆA.	386 Pteris Geraniifolia, Raddi 3103	pl. 118 386 Pteris Boivini, Hk. 3863
Hooker's Species Filicum.	222 L. Ree 223 L. Pro 224 L. Obt		_ 223 Idem		$egin{array}{c c c c c c c c c c c c c c c c c c c $		36 Idem	31 Idem	30 Idem	-	94 Idem pl. 100 95 Chusana pl. 106		82 Idem	77 Idem		132 Idem	147 Idem
Hooker & Baker's Synopsis Filicum.) Nitens Bl.	L. (Schizoloma) Lanceolata Lab.	L. (,,) HETERO- 1 PHYLLA Dry.		A. Lunulatum Burm. 2	A. CAUDATUM L. 2	A. CAPILLUS-VENERIS - L. 2	A. Hispidulum Sw. 2	58 A. Flabellulatum L. 2		G. Mysurensis Wall. 2	26 C. Thwaitesh Kulm 2	85 C. Tenuifolia Sw. 2	59 C. (Aleuritopteris) Farinosa $ E $		P. (CHELLOPLECTON) GERANIE- 2	25 P. (Allosorus) Boivini Hk. 2

Near Rock Cave, Telganma. Terraneous.		Badulla Road, below Hackgalla. Terraneous.	About Hackgalla. Terraneous.	In forests of the Southern Province, at very low elevations. Terraneous.	Very common at low elevations in the Central Province. Terrancous.	Extremely abundant in the Western, Central and Southern Provinces, at all elevations, up to 6000 ft. Terraneous.	Glen forest, Matale. Terraneous.	Extremely abundant at the higher elevations.	Common at elevations above 1500 ft. Terraneous.	Oodawella, Matale and Mooroowa forests, above 2000 ft. Terraneous.	Common in the forests of the Central and Southern Provinces, above 3000 ft.	Common in the Central and Southern Provinces. Very common about Galle. Terraneous.		Common in the Western and Southern Provinces, in wet swampy places.		Common in the forests of the Central Province, above 4000 ft. Terraneous.		Extremely abundant in the Western and Central Provinces, up to 6000 ft. Terraneous.		Not uncommon about Hackgalla and in the forests of the Central Provinces, above 4000 ft. Terraneous.		Common on trunks of trees, up to 2000 ft.	
Platyloma Falcatum, J. Sm.		Idem	Idem	Idem	Idem	Idem P. Otaria, Beddome	Idem	P. Aquilina, Γ. var. β. Lanuginosus	Idem	Idem	Litobrochia Incisa, Thumb.	Litobrochia ti		Idem		L. Elongata, Bl.		29 Idem		Idem		Idem	
22		88	39	40	35	81	32	42	44	205	221	220	ZIS.	22		28		29		222	T.	197	
Ω	S.	∞	∞	20	ω ω	ω	∞	∞	∞	∞	<u>~</u>	<u>σ</u>	TER	∞	RIA.	∞	UM.	Ω	IA.	∞	IUN	<u>m</u>	
Addenda - 3933	GENUS 31. PTERIS	Idem 3144	Idem 3502	Var. β. Cretica 1329	Idem - 1328	Idem 1330 & Forma Ludens 1351, 3060	Addenda - 3945	P. (Ornithopteris) Aquilina 1332 rar. \(\beta\). Lanuginosa	Idem	386 Eupteris Patens, Hh. 1047 PAn. P.(Camp.) Gard-neri, Fée	P. Aurita, Blum. 1326	Idem 1327	s 32. CERATOPTERIS	Idem 980	GENUS 33. LOMARIA	L. Elongata, <i>Bl.</i> 1333	NUS 34. BLECHNUM	Idem 977	GENUS 37. DOODIA	382 Idem, var. \beta. Zey- lanica 976	Genus 38. ASPLENIUM	Idem 3267	
		986	986	986	988	386		986	387		387	387	GENUS	379	9	381	GENUS	381			GE	383	
Idem y Nana - pl. 111		Idem	Idem	Idem	Idem pl. 127	Idem pl. 134	Idem	P. (Ornithopteris) Aquilina	Idem	P. Patens, Hk. pl. 137 P. (Campteria) Gard- neri, Fée	Idem 1320 P. Aurita, Blum.	Idem		235 Idem .		L. Patersoni, Spr.L. Elongata, Bl.pl. 143		Idem		Idem, var. /3. Zey- lanica		77 Idem	
135		157	159	165	163	179	191	196	203	177 206	230 231	225		235		တ တ		52		73		22	
63		C1	C2	23	C1	23	C1	C3	C 1	21	C1	22		22		က		က		es		က	
35 P. (Platyloma) Falcata Fee		1 P. Longifolia L.	4 P. Cretica L.	6 P. Hookeriana Agardle.	10 P. Crenata Sw.	22 P. Quadriaurita - Retz.	36 P. Pellucens Agardh.	40 P. (Pœsia) Aquilina - L.	46 P. (Campteria) Biaurita I.	47 P. (,,) Patens - Hh.	81 P. (Litobrochia) Incisa Thumb.	82 P. (") Tripartita Sw.		1 C. Thalictroides - Brong.		1 L. Patersoni · Spr. Var. β. Elongata - Blume		15 B. ORIENTALE L.		3 D. Dives Kunze		1 A. (Thamnopteris) Nidus L.	

	HABITAT, ETC.		About Newera Ellia, and Wattakelly Hill, above 5000 ft. On rocks and trees.	Common at elevations above 4000 ft. Terra- neons.	Not common. Forests of the Central Province, above 2000 ft.	Common about Newera Ellia, on rocks about streams.	Not common. Oodawella. Matale, east, on rocks.	Not uncommon in the higher forests of the Central Province.	Common on rocks about Newera Ellia, and the forests above 5000 ft.	Common on rocks, Western and Central Provinces, at low elevations. Pattawella Rock, near Colombo.	Newera Ellia, and higher forests of the Central Province.	Sonthern Province, on rocks in the forests, above 1500 ft.	Uncommon. On rocks in river-bed, Dooroomadella. East Matale.	Common in the forests of the Central Province, above 2000 ft.; generally on rocks and rocky banks. The large forms in wet swampy spots.	Common on rocks in the forests of the Central Province, above 3000 ft.	Not common. Wattakelly Hill. Vicarton forests, above 3000 ft. On rocks and trees.	Common about Newera Ellia and Hackgalla.	All common, but not distinguished by any con-	stant characters, and therefore the proper habitats cannot be defined for them separately.		Abundant under rocks and large stones, at Mattoorattoo, Ambawella, Rambodde, 3000 to 5000 ft.	On rocks in the beds of streams, at Newera Ellia. Rare. Dies off in S.W. monsoon.
	Beddome's Ferns of British ${\mathfrak E}$ Southern India.	species.	Idem	Idem	Idem	Not figured	A. Elongatum, Sw.	A. Brasiliense, Raddi	Idem	A. Caudatum, Forst.	6.	6.	$\mid \mathrm{Idem} \mid$	Idem	Idem	Idem	Idem	A. Spathulinum, J. Sm.	Idem rar. Obtusum	Idem	Idem	Idem
	Beddon	VOL. PLATE	125	133	126		224	135	128	143			136	132	131	139	144	220	148	225	129	130
		OA	Δi Ω	δ. S	ω ω	is m	. T	2	S	st. S	-0:	-0	<u>ω</u>	ω, α, Ω	S	S	<u>ν</u>	m. #1	α Ω	is a t	ο: Ω	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
	Thwaites' Enumeratio.	SPECIES.	Idem 1334	Idem 1005	Idem - 1070	Dr. T. includes this with A. Wightianum	A. Elongatum, Sur.	Idem 3141	ldem - 3461 var. β. Latifolium	A. Caudatum, Forst.	A. Falcatum, Lam. 3140	A. Macrophyllum, Sw . 1340	Idem	Idem - 427, 3269, 1336-8	Idem 1006	Idem 3289	Idem 3497	A. Spathulinum, Sm. 2905, 1841	Idem 1008	Dr. T. transfers this plant to A. Nitidum 3801	Idem 3139	Idem 3268
	Thy	PAGE (983 I	384 I	<u> </u>		388	388 1	388 1	384	384 /	384 4	984]	388 I	383 I	384 1	$\frac{384}{1}$	384 A	$\frac{384}{1}$		384 1	384 1
	Hooker's Species Filicum.	SPECIES. PA	Idem 3		Idem - pl. 167 $\overline{3}$ A. Longipes, $F\acute{e}e$	Idem A. Heterodon, <i>Mott.</i> A. Walkeræ, <i>Hk.</i> pl. 163		Idem	Idem sar. β . Latifolium	C.P. 1080	Idem C. P. 1081 8	6.	Idem 8	Idem 8	Idem pl. 175	Idem pl. 200	Idem	A. Spathulinum,	Idem	Idem pl. 203	Idem	Idem B
	Tooker	PAGE	89	139	105 106	102 107 108	117	126	109	160	152		143	130	132	163	165	169	172	171	192	193
	-	VOI. PAGE	ಣ	m	က	စ	m	က	က	က	ಣ		ಣ	(C)	ೲ	က	ಣ	30°4	က	m	က	ಣ
	Hooker & Baker's Synopsis Filicum.	SPECIES.	A. Ensiforme Wall.	A. NORMALE Don	A. Wightianum Wall.	A. Vulcanigum Bl.	A. Tenerum Porst.	A. Erectum Bory	A. Persicifolium - J. Sm.	A. Falcatum Lam.	A. CAUDATUM Forst.	A. Gardneri Baker	A. Formosum Willd.	A. Resectum Smith	A. HETEROGARPUM - Wall.	A. PLANICAULE Wall.	A. FURCATUM Thunb.	A. AFFINE Sw.	A. Nitidum Sie.	A. LASERPITIFOLIUM Lam.	A. Varians Hi. & Gr.	A. Tenuirolium Don
1)H	NO.	4	42	50	59	61	64	65	94	95		100	102	104	105	125	126	127	128	134	152

Singhe Raja forest, Thw.	Pittawella, Beckett.	Not uncommon about Newera Ellia. Terra- neous.	Common in the forests of the Central Province, above 5000 ft. Terraneous.	About Newera Ellia, in the forests, up to 7000 ft. Terraneous.	Forests of Matale East, and Saffragam, at an elevation of 2000 to 3000 ft. Terraneous. Dies off during N.E. monsoon.	Forests of Ambagamowa and Kotmallee, Thue.	Common in the forests of the Central Province, at 2000 to 4000 ft. elevation. Terraneous.	Forests of the Central Pro- Terraneous.	In the forests about Newera Ellia. Terraneous.	Common in the forests of the Central Province, above 3000 ft. Terraneous.	Common in the forests of the Central'and Southern Provinces, at an elevation of 2000 to 4000 ft. Terraneous.	Common in the forests of the Central Province, 3000 to 5000 ft. Terraneous.	In the forests about Pittawella, Matale, at an elevation of 2000 ft. Terraneous.	Common in the Western and Central Provinces, at all elevations below 3000 ft. Terraneous.	In the forests of Oodawella a 3000 ft. Terraneous.		Common in the forests of the Central Province, 2000 to 4000 ft. Terraneous.		Trincomalee, Gardner. Gonagamma, near Kaudy, Thwaites.		Common in the forests of the Central Province, about 5000 ft. Terraneous.	
138 A. Prolongatum, Hk.	150 Idem	$\begin{array}{c c} 152 & \text{Idem} \\ 153 & var. \ \beta. \end{array}$	157 A. Nigripes, Mett. 156 A. Gymnogrammoides, KI.	A. Pectinatu	227 Idem	228 Idem	161 Idem		291 Idem	163 Dipl. Asperum, Bl. 293 Idem C. P. 1852	229 Dipl. Decurrens, Beddome	162 Dipl. Dilatatum, Bl.	294 Diplazium Assimile, End.	164 Callipteris Esculenta, Houlst. & Moore	332 CallipterisSmithiana, Baker		159 Idem	rô	124 Idem		120 Idem	
∞	ω 	S 11	ω ω 	<u> </u>	Ω ሟ	Ω <u>α</u>			<u>м</u>		Ω 24	\[\text{\ti}\xititt{\text{\ti}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tex{\tex			B 3	OIA.	Ω -1	ERIS	$\frac{S}{1}$	JM.	ω -	
A. Prolongatum, Hk. 1348	Addenda - 3867	Idem	A. Nigripes - 3067 A. Gymnogrammoi- des, <i>Klotsch</i> 1344–5	Idem	Idem 1335		1	A. Schkuhrii, I & Addenda A. Decussatum,	Idem 1343	Idem		A. Dilatatum, Hk. 1350			Addenda - 3990	ALLA	385 Idem - 2548	40. ACTINIOPTERIS	Idem 1342	GENUS 43. ASPIDIUM	Idem 1866	
384		384	-	385	385	385	385		385	385	dd 385		385	385		GENUS	385	GENUS	986		988	
206 A. Rutæfolium, Kunzel 384 209 A. Prolongatum, Hk.	Idem	Idem	Idem A. Gymnogrammoi- des, <i>Klotsch</i>		Idem	Idem	Idem Idem	A. Schkuhrii, Mett.	Idem	Idem	=	1		Idem Idem	New species		ldem		Idem		11 Idem pl. 218	
		222	222		235	237	248	251	250	257	248	258		268		•.	275		276			
38	(A- 3)	3.	37.	3.	b	k: 33	es ls	b. B	 B	ES 3	80	3	7.	38	J.W.		8 3		k . $\mid 3$		w. 4	
A. (DARÆA) RUTÆFOLIUM Kunze	A. (ATHYRIUM) HOHENAG	A. (,,) Ma	A. (Athyrium) Nigripes Bl.	A. (,,) Aspidioldes Schlecht.	A. (DIPLAZIUM) LANCEUM Thunb	A. (,,) Zexlanicum Hk.	A. (,,) Sylvaticum Presl	A. (,,) Japonicum Thumb.	A. (,,) THWAITESII A. Br.	A. (,,) Polypodiodes	A. (,,) MAXIMUM Don	A. (,,) LATIFOLIUM Don	A. (,,) As	A. (Anisogonium) Esculen- rum Presl	A. (") SMITHIANUM Balter		A. Brunoniana Wall.		A. Badiata Link.		A. (Polystichum) Auricula- tum Sw.	
166	182	189	190	194	200	203	217	226	227	244	246	249		274	275		_		-		13	

	HABITAT, ETC.		Common in the forests of the Central Province, above 5000 ft.	Horton Plains and Happootella, 5000 to 6000 ft. Thwaites. Probably dies off during part of the year.	Not uncommon in the forests of the Central Province, 5000 to 6000 ft. Terraneous.	Common in the forests of the Central Province, 1500 to 6000 ft. Terraneous.	Common in the forests of the Central Province, 4000 to 6000 ft.	Common in the Matale district, about 1090 to 1500 ft. Terraneous.		Common in the forests of the Central Province, above 3000 ft. Terraneous.	Very common at all elevations, up to 6000 ft., in the Western, Central and Southern Provinces. Terraneous.	Very common in swampy places about Newera Ellia.	Common in the higher forests of the Central Province. Terraneous.		Forests about Newera Ellia. Terraneous.	Wattakelly Hill. Forests about Newera Ellia. Terraneous.	Abundant in the forests of the Central and Southern Provinces, above 3000 ft.	On the upper part of Wattakelly Hill. Terraneous.	In the forests of the Southern Province, up to 1000 ft. Terraneous.	In the forests of the Southern Province, about 2000 ft. Terrancous.	On rocks on the Eastern Ranges of Central Province, Beckett.
	Beddome's Ferns of British & Southern India.	s species.	Idem		Lastrea Amabilis, Moore	Lastrea Aristata, Moore	/	Sagenia Gigantea, Bl. var. Minor		Lastrea Hirtipes	L. Calcarata, Bed. L. Falciloba, Hook.	L. Gracilescens, Hk.	L. Ochthodes, Kze. L. Tylodes, Kze.		L. Patentissima, Bed.	L. Flaccida, Hook.	L. Sparsa, Moore L. Deltoidea, Bed. 1368 L. Pulvinulifera, Bed.		Lastrea Deparioides,	Lastrea Concinna,	Lastrea Odorata, Bory
	Beddon	VOL. PLATE	121	219	109	101	261	248	M.	96	105	110	106	108	111	250	103 248 333	-	104	247	95
-		AC	ω ~. το Ω	_	2	Δ1 Ω	B B	ω ω	DIC	ω N	S C	N	S S S S S S S S S S	2. 4 S	4 S	2. 2. X	n α α α		\\ \alpha \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ω ω	Ω
	Thwaites' Enumeratio.	SPECIES.	Idem 1376, 8503 A. Biaristatum, <i>Bl.</i> 3275	Idem 3504	Idem 3287	Idem 1373, 3384	Addenda - 3938	A. Giganteum, var. Minor 1358	44. NEPHRODIUM	Aspidium Hirtipes, $Bl.$ 1291	Asp. Calcaratum, Bl. 1363, 3273, 992, 3050	Asp. Gracilescens, Bl. 1287	Asp. Ochthodes, Kze. 975 A. Tylodes, Kze. 1361	Asp. Spectabile, Bl. 3274	Asp. Filix-mas 1364 var. β .	Asp. Flaccidum, Bl. 3802	Asp. Sparsum, Spr. 4007, 1375 & rar. \(\beta\). Lata, Moore 1368-70, 3383	Asp. Undulatum, Thw. 3858	-	Asp. Concinnum, Thw. 3798	Addenda - 3888 A. Eriocarpum, Dec.
	TI	PAGE	390	390	390	390		390	GENUS	392	391	391	392 1 391 1	392	392	391	392	444	393	392	
	Hooker's Species Filicum.	SPECIES.	Idem A. Biaristatum, $Bl.$	Idem	Idem - pl. 225 3	Idem	A. Aristatum, var. β. Coniifolium, Wall.	A. Giganteum, var. 3 Minor A. Membranaceum, Hk.	[- 5	Idem pl. 249	Idem N. (L.) Falcilobum, Hk.	New species	N.(L.)Ochthodes, Hk . \exists rav. β . A. Tylodes, Kze . \exists	N. (L.) Spectabile, H_{lk} .	Idem, var. β. 3	Idem pl. 263	N. (L.) Purpuras- cens, Hk. pl. 262	New species 4	<u>Idem</u> 8	-	N. (L.) Eriocarpum, Decaisne
	Hook	VOL. PAGE	18 29	27	25	27	28	50		115	93		109	115	116	133	132		139		141
-		VOI.	4 4	4	4	7	4.	4 10		4	4 4		4	4	4	4	4		4	,	4
	Hooker & Baker's Synopsis Filicum.	SPECIES.	A. (Polystichum) Aculeatum	A. (,,) ANOMALUM Hr. d. Ann.	A. (,,) Amabile Blume	A. (,,) Aristatum Sw.	A. (") Confedium Wall.	A. Membranaceum - Hook.		N. (LASTREA) HIRTIPES Hk.	N. (,,) Calcaratum	N. (,,) Beddomei	N. (,,) Prolixum Baker	N. (,,) Syrmaticum Baker	N. (,,) Filix-Mas Rich	N. (,,) Flaceidum Hk.	N. (,,) Sparsum Don	N. (,,) Undulatum Baher	N. (,,) Deparioldes His.	N. (,,) Thwaitesii Baker	N. (,,) Odoratum Baker
	Hoo	No.	18	27	28	22	37	70		10	29	47	53	72	75	88	94	95	96	97	117

Common in the forests of the Central Province, 2500 to 5000 ft. Terraneous.	Not uncommon in the forests of the Central and Southern Provinces, 4000 to 5000 ft. Terraneous.	Forests of East Matale, 2000 to 3000 ft. Terraneous,	Forests of the Central Province, above 5000 ft. Terraneous.	-	Common in the Central Province, in shady places, 1500 to 3000 ft. Terraneous.	In the forests of the Southern Province and of Saffragam, up to 3000 ft. Terraneous.	Gonagamma, Thw. Pittawella villages, Beckett. Dies off during part of the year.		Common in forests of the Central Province, below 3000 ft. Terraneous.	Not uncommon in the forests of the Central Province, 3000 to 4000 ft., and Happootelle. Terraneous.	Very common on banks and road-sides in the Central Province and Ouvah, up to 5000 ft.		Small form: — Kitool Galla, Ambagamoa, Thw. Large form: — Ambawella and Oodapusselawa, about 5000 ft. Terraneous.	Common in the forests of the Central Province, about 3000 to 5000 ft. Terraneous.	Not uncommon in the forests of the Central Pro- Province, 2000 to 4000 ft. Terraneous.	Very common in the Western, Central and Southern Provinces, at all elevations up to 6000 ft. Terraneous.	Not uncommon in the forests of the Central Province, 2000 to 5000 ft. Terraneous.		Not uncommon at low elevations about Kurunu-galla and Rattotta. Terraneous.	Not uncommon in the forests of the Central and Southern Provinces, 2000 to 5000 ft. Amongst rocks.	Common about	. H	
	Lastrea Membrani- folia, Presl.	Lastrea Intermedia, BI .	Idem	Lastrea Boryana, Willd.	Lastrea Setigera, Bl.	Polypod. Walkeræ, Hooker	Alpua, Deta «Gamma Pleocnemia Aristata, Hook.	Neph. Propinguum, R. Br.	N. Terminans, J. Sm.	N. Extensum, Bl.	N. Unitum, Sieb.			Idem		Idem N. Didymosorum	N. Eusorum, Thw.	N. Abruptum, Pr.	Sag. Subtriphylla,		Sagenia Pteropus,	Ditto, var. Minor	
98	102	_ <u>249</u>	296		66	234	883		06	85	88			87		84	130	98	242		82	245	
	ω ω	ω	18- 81 A	∞	∞		υ ω	$ \infty $	ω	<u>σ</u>	<u></u>	_		ω		<u>——</u>	m	Ω.	m m		∞	ω ω	
Aspid. Recedens, Mett. 1374	A. Membranifolium, Mett. 3061, 3096	Aspid, Blumei 3059	An var. β. A. Blumei ? 3142	Asp. Divisum, Wall. 3097	Asp. Tenericaule, 1286, 1365	Pol. Walkeræ, Hk. 3276	Aspid. Otaria, Kze., 1299	Asp. Propinguum,	Aspid. Terminans, Wall. 990	Aspid. Extensum, 3391, 3498 Bl.	Aspid. Unitum, Mett. 973		Addenda - 3391	Aspid. Arbuscula, Desv. 1359		Idem	Aspid. Eusorum, Thw. 3064	A. Abruptum, Bl. 3271	A.	A. Polymorphum, $Wall$. 1354	Aspid. Pteropus, Kze.	,, ναι. β. 3808	
393	390	392	392	392	303	444	390	391	391	391	391		391	391	391	391	391		930	390	390	438	
1091-0-11-50	Idem - pl. 261 Pol. (Pheg.) Milnei, Hk.	N. (L.) Blumei, Hk. in part		N. (L.) Divisum, Hk.	H. (L.) Tenericaule, Hk. pl. 269	Pol. (Pheg.) Walkeræ, Hook.	N. Aristatum, Hk.		N. Terminans, J. Sm.	N. Extensum, Bl.	N. Unitum, Sieb.		Idem		N. Pennigerum, Bl.		N. Abruptum, Pr. pl. 241		162	A. Polymorphum, Wall.	Asp. Pteropus, Kze .		
135	131 254	135		133	142	233	62	79	73	72	81		75	74	85	67	77		52	54	47		
4	44	74		4	4	4	4	4	4	4	4		4	4	4	4	4		4	4	4		
124 N. (LASTREA) RECEDENS Hook.	126 N. (,,) Membranifolium P_{resl}	134 N. (,,) Intermedium Baker	136 N. (,,) Obtusilobum Baker	137 N. (,,) Boryanum Baker	139 N. (,,) Setigerum Baker	Pege N. (,,) WALKERÆ Hooker	159 N. Otaria Baker	162 N. Unitum R. Br.	164 N. Pteroides - J. Sm.	165 N. Extensum Hook.	N. CUCULLATUM J	-	178 N. Amboinense Presl	I79 N. Arbuscula - Desv.	N. Pennigerum	187 N. Molle Desv.	194 N. Truncatum - Prest.		N. (SAGENIA)	N. (,,	217 N. (,,) Decurrens Balon	& var. Minor	

Hooker & Baker's Synopsis Filicum.	Н	Tooke:	Hooker's Species Filicum.	Thr	Thwaites' Enumeratio.	Ř	eddome S	Beddome's Ferns of British & Southern India.	HABITAT, ETC.
No. SPECIES.	VOL. PAGE	PAGE	SPECIES.	PAGE	SPECIES.	VOL.	PLATE	SPECIES.	
221 N. (Sagenia) Cicutarium Baker	4	48	Aspid. Cicutarium,	390	Asp. Cicutarium, $Sw.$ 1356	∞	81	Sagenia Coadunata,	Forests about Rambodde. Terraneous. Dies off during N.E. monsoon.
N. (") Simulans Baker			New species	390	,, rar. β. 3831	∞	244	S. Thwaitesii, Bed.	Forests about Galle. Southern Province. Ter- raneous.
223 N. ("GIGANTEUM) Baker	4	50	Aspid. Giganteum, Bl.	890 1	Asp. Giganteum, $Bl.$ 1357	∞	80	Sag. Gigantea, Bl.	Common in the forests of the Central and Southern Provinces, 2000 to 4000 ft. Terraneous.
			9	GENUS	45. NEPHROLEPIS	EPIS	70		
1 N. Cordifolia - Baker	4	151	N. Tuberosa, Pr.	393]	N. Tuberosa, Presl, 1877	∞	92	N. Tuberosa, Pr.	Extremely common on rocks, at all elevations up to 5000 ft.
2 N. Exaltata Schott	4	152	Idem	393]	Idem 3077	Ω	93	Idem	Very common on rocks and banks on the road- sides, Central and Western Provinces, up to 5000 ft.
3 N. Acuta Presl	4	153	Idem	393]	Idem 991	ω	94	Idem	Not so common as the preceding. Grows at the lower elevations.
4 N. Ramosa Baker	4	154	N. Obliterata, Hk.	393]	N. Obliterata, Hk. 1876	S	251	N. Obliterata, Hk.	Common in the forests of the Central and Southern Provinces, 2000 to 5000 ft. Climbing on trees.
				GEN	GENUS 46. OLEANDRA	RA.			
2 O. Muserolia Kunze			New species	393 (O. Neriiformis, Cav. 1878	∞	91	O. Neriiformis, Cav.	Not uncommon on rocks and trees in the forests of the Central Province, np to 6000 ft. Dies off during N.E. monsoon.
-	-			GENUS	s 48. POLYPODIUM	IUI	I.		
26 P. (Phegopteris) Distans Don	4	244	P. Paludosum, Bl.	394	P. Paludosum, Bl. 1288	∞	168	P. Paludosum, Bl.	In marshy places about Newera Ellia.
33 P. (,,) Rufescens Bl.	4	257	Idem	394]	Idem 3143	ω	236	Idem	Not uncommon in the forests of the Central Province, 2000 to 5000 ft. Terraneous.
48 P. (Pheg.) Punctatum Thumb.	4	272	P. Rugulosum, Lab.	394]	P. Rugulosum, Lab. 1285	∞	170	P. Rugulosum, Lab.	Common about Newera Ellia, in the forests and shady places. Terraneous.
65 P. (Goniopteris) Urophyllum Wall.	10	6	Idem	$\frac{394}{}$ $\frac{P}{}$	P. Granulosum, Presl 3063	$ \infty $	239	Goniop. Uurophylla, Wall.	Oodawella forest, uncommon. Terraneous.
69 P. ,,) Proliferum Presi	ಸಾ	13	Idem	439	Idem 3145	∞	172	Goniop. Prolifera, Presl	Minnery, Eastern Province, Beckett. Not common.
92 P. Parasiticum Mett.	4	167	Idem	898	Idem - 1283 var. Pilosiusculum 3921	∞	165	Idem	On rocks and trees above Rambodde, 4000 to 5000 ft. Var . Pilosiusculum, Seeta Gongolla. Adam's Peak, $Tlvv$.
98 P. Hirtellum Bl.	4	166	Idem		Addenda - 3902	m m	212	Idem P. Lasiosorum, Hk.	Forests of Dickoya and Telgamma, Beckett.
101 P. Zeylanicum Mett.	4	169	Idem pl. 272	393]	Idem 3074	ω	237	Idem	Common in the forests about Newera Ellia, on rocks and trees.
121 P. Cucullatum Nees	4	176	Idem	394 Idem	[dem - 1282	20	233	Calymmodon Cucul- latus, Prest	Not uncommon on rocks and trees in the Central and Southern Provinces, 3000 to 5000 feet.
140 P. GLANDULOSUM - Hook.	4	193	Idem	394	Idem 1289	∞	238	Idem	On trees in the forest near the summit of Wattakella Hill. Rarc.
o Plorniderum Bake	14	22	o species	ga	Addenda 4005	1	1	0	One plant only formed by &

Common on trees and rocks in the forests about Newera Ellia.	Not common. In the forests about Rambodde, and in the Mooroowa Coole, on trees.	Forests about Dickoya, on trees, not common.	Not uncommon in the forests of the Central Province, above 3000 ft., on trees.	Singhe Rajah forest, Thwaites.	Common on rocks and trees in the Western and Central Provinces, up to 2000 ft.	Not uncommon in the warmer parts of the island, up to 3000 ft., Thwaites.	Common on trees and rocks in the forests of the Central Province, 3000 to 5000 ft.	Common on rocks and trees in the Central and Southern Provinces, up to 3000 ft.	Common in the forests about Newera Ellia and Hackgalla, on rocks and trees.	Ambawella estate. On rocks and stumps amongst the coffee trees.	On rocks and trees in the forests of the Central Province, 2000 to 5000 ft. Dies off during N.E. monsoon.	Below Pittawella estate, on trees and rocks.	Mooroota, Gardner. Ambegamoa, Thw. Grows in water.	Common on rocks and trees in the forests about Newera Ellia and Oodapusselava. Dies off during the N.E. monsoon.	Common at low elevations in the Western and Central Provinces, on banks, rocks and trees.	Common on rocks and banks in the forests of the Central Province, 2000 to 4000 ft. Dies off.	Forest above Telgamma, about 4000 ft. Rare.	Extremely abundant on rocks and trees in the Western, Central and Sonthern Provinces, at all elevations up to 3000 ft.	Western Province, near Colombo.	
Idem		Idem	P. Subfalcatum, Bl.	Idem	Niph. Adnascens, Sw.	Niph. Lingua, Sw.	Niph. Fissus, Bl.	Niph. Gardneri, Mett.	Pleopeltis Lineare, Thunb.	Pleop. Lanceolata, L .	Pleop. Membrana- ceum, Don	Pleop. Irioides, Lam.	Pleop. Pteropus, Bl.	Pleop. Trifida, Don	Pleop. Phymatodes, L .	Pleop. Nigrescens, Bl.	Pleop. Dilatata, $Wall$.	Idem	Idem	
267	-	188	189	238	184	240	183	241	280	181	177	178	179	175	173	176	122	187	315	ja M
ω	-	M	<u>m</u>	ω	∞	ω	ω	<u>ω</u>	∞	ω	α	∞	S E	∞	<u>~~</u>	Ω	B	Ω	m	ABARATE
Idem - 1284	C. P. 1290	Addenda - 3900	P. Parvulum, Bory 3073	Idem 3816	Idem - 993, 3293	P. Lingua, Sw. 1294	P. Porosum, Wall. 3104	Idem 988	P. Wightianum, IVall. 1295	Addenda - 5988	Idem 1298	Idem 3799	P. Tridactylon, Wall.	P. Oxylobum, Wall. 3291	Idem 1297	Idem - 1296	Addenda - 3973	Idem 3265	Included with the foregoing species	C O O I O I I
394			394	439	395	395	395	395	394		395	395	395	395	395	395		395		ζ
190 Idem pl. 276 394	190 P. Obliquatum, Bl. in part [see Note].	New species	188 Idem	179 Idem	47 Idem	49 P. Lingua, Sw.	48 P. Porosum, Wall.	51 Idem	57 P. Loriforme, Wall.	56 P. Lepidotum, Willd.	70 Idem	67 Idem	75 P. Tridactylon, Wall.	77 P. Oxylobum, Wall.	82 Idem	81 Idem	85 Idem	96 Idem	Included with the foregoing species	
4	4		4	4	20	ಬ	ಸಂ	ಸ೦	10	ಬ	ಸರ	20	10	70		ದ	-Co	70		
P. OBLIQUATUM Bl.	P. REPANDULUM Mett.	P. Thwaitesh - Beddome	P. Minutum Bl.	P. Decorum - · Brack.	P. (Niphobolus) Adnascens	P. (",) PANNOSUN	P. (,,) Fissum	P. (,,) GARDNERI Mett.	P. (PHYMATODES) LINEARE Thumb.	P. (,,) LANCE	P. (,,) Membrana- Ceum Don	P. (",) IRIOIDES	P. (,,)PTEROPUS Bl.	P. (,,) Trifidum Don	P. (,,) PHYMATODES I.	P. (,,) NIGRESCENS	P. (,,) DILATATUM IVall.	P. (DRYNARIA) QUERCIFOLIUM	P. (,,) Linnel Bory	
148	149 Part.	149 Part.	151	168	278	280	287	293	304	314	939	341	350	355	362	363	366	381	382	

GENUS 51. MONOGRAMME.

The state of the s	On rocks and trees in the forests of the Central and Sonthern Provinces, about 3000 ft.	
	6 M. Jungнuнии Hook. 5 123 Idem pl. 289 381 Vaginularia Jung- S 210 Idem huhnii, Mett., 1281	

HABITAT, ETG.			In the forests about Newera Ellia. Terraneous.	In the forests about Newera Ellia and Mattoo-rattoo. Terraneous.	On rocks above Hackgalla Gardens. Rare. Dies off during part of the year.	On Pedrotallagalla, trees. Very rare.	On rocks and trees about Newera Ellia forests.		Forests of Matale and Saffragam, about 2000 to 3000 ft. Terraneous.	Forests of Matale, about 3000 ft. Terraneous.		Common on rocks in the forests of the Central Province, above 2000 ft.	Common at low elevations in the Southern Province, and up to 4000 ft. in Ouvah, on rocks.		Very common in the forests of the Central Province, above 3000 ft., on rocks and trees.	Forests of Hatgodde, Matale, and Elbedde Dickoya, on trees, Beckett.	-	In forests about Ratnapoora, and in the Southern Province, on rocks and trees, up to about 3000 ft.		In the forests about Galle and Ratnapoora. Terraneous.		Very common on trees about Colombo, and all over the Western and Central Provinces, below 2000 ft.		Common on rocks and banks in the Western and Central Provinces, at all elevations up to 3000 ft.
Beddome's Ferns of British & Southern India.	VOL. PLATE SPECIES.		S 49 Grammitis Totta,	B 57 Idem	S 270 Idem	S 51 Loxogramme Lan- ceolata, Presl	S 50 Lox. Involuta, Prest	UM.	S 56 Idem	S 23 Idem	YUM.	S 52 Idem	S 231	A.	S 21 Idem	B 175 Tæniopsis Falcata, Kze.	S 54 Tæniopsis Lineata, $J. Sm.$	S 212 Tæniopsis Scolopen-drina, J. Sm.	IS.	B 54 Idem	SSUM.	S 55 Idem .	ITIS.	S 58 Idem
Thwaites' Enumeratio.	PAGE SPECIES.	GENUS 52. GYM NOGRAMME	382 Idem 1292	382 G. Serrulata, Bl. 3264	Addenda - 3934	382 Idem 3146	382 Idem 1302	GENUS 53.4-MENISCIUM	382 Idem 1193	382 Idem 3145	GENUS 55. ANTROPHYUM	1982 Hemionitis Planta- gineum, Cav. 3290	382 Hem. Reticulata, Forst. 1305	GENUS 56. VITTARIA	438 Idem 3806	3807	381 Idem 281	Idem 1304	GENUS 57. TÆNITIS	3922	Genus 58. DRYMOGLOSSUM	381 Idem 3076	GENUS 59. HEMIONITIS	382 Ldem 1309
Hooker's Species Filicum.	VOI., PAGE SPECIES.		5 138 Idem	5 I45 Idem	5 136 Idem	5 156 Idem	5 Idem		5 163 Idem	New species	_	5 170 Idem	5 169 Idem			5 182 Idem	5 180 Idem	5 177 V. Zeylanica, Fee		5 187 Idem		5 190 Idem		5 192 Idem
Hooker & Baker's Synopsis Filicum.	NO. SPECIES.		3 G. (LEPTOGRAMME) TOTTA	35 G. Javanica Blume	44 G. LEPTOPHYLLA - Dest.	66 G. (Sellignea) Lanceolata Hook.	69 G. (,,) Involuta Don		3 M. Triphyllum · Sw.	4 M. Thwaitesh - Hook.		5 A. Plantagineum - Kaulf.	7 A. Reticulatum Kaulf.		1 V. Elongata Sw.	B V. (Tæniopsis) Falcata Kee.	7 V. (,,) LINEATA Sw.	9 V. (") Scolopendrina Thu.		5 T. Blechnoides Sw.		2 D. Prioselloides - Prest		2 H. Cordata Prest

	(c, Common in the forests of the Central Province, above 4000 ft., on rocks and trees.	On rocks in the forests about Newera Ellia, and in the Southern Province, at a much lower elevation.	Above Rambodde, at about 5000 ft., on trees. Rlowers in August to November.	Very common. Climbing on trees in the Western, of Central and Southern Provinces, up to 2500 ft. Flowers August to October.	Very common amongst stones in the beds of streams in the forests of the Central Province, up to 5000 ft.	Hh. from 3000 to 6000 ft. The pinnate form scommon on rocks from 3000 to 6000 ft. The pinnate form grows in the forests about Matale, about 3000 ft., abundantly. Flowers during the S.W. monsoon.	1	ii- Oodawella forests. Terraneous.	m. Saffragam forests, 2000 to 3000 ft. Terraneous.	ei, On rocks and stones in river-beds of streams, me Rambodde and below Pittawella.	In a rocky ravine, Mooroowa, Southern Province, on mossy stones.	In swamps about Galle and Colombo. Very abundant.	ata, Not uncommon in the forests of the Central Pro- Prest vince, 2000 to 4000 ft., on trees.		Very common on rocks in the beds of streams, in the forests about Newera Ellia.		In low jungles of Saffragam and Western Pro-		Not uncommon. Climbing on trees in the forests and chenas of the Western, Central and Southern Provinces, up to 2000 ft.
	Elaphog. Conforme, Schott. E. Laurifolium, Thouars			Stenoch. Scandens, J. Sm.	Polybotrya Appendiculata, J. Sm.	Gymnop. Varia	G. Quercifolium, Bernh.	Pæcilopteris Terminans, Wall.	P. Repanda, J. Sm.	? Gymnopteris Féei,	•	Idem	Hymenol. Spic	ei S	Idem	ę.	Idem		Idem
UM.	198		197	201	194	274	47	203	207	48		204	46	CEA.	77	CEÆ.	268	Л.	. 62
ICH	11 01 S S	989		12 	S S	3/: -8 -8	19 S	Ei-: S	25	e- S		15 S	33 S	ID A	88 8	Æ A ZÆ	05 S	LUIC	%. 06 S
s 60. ACROSTICHUM	A. Marginatum, Wall. 1311 A. Laurifolium, Thouars 1310	A. Spathulatum, Bory 90	Idem	Idem 1312	Idem 1314	A. Decurrens, <i>Hool</i> . (1157) 1317–8	Idem 1319	A. (Pæcil.) Hookeri- anum, Moore 1313	A. (Pœcil.) Repandum, Bl. 3075	Referred to A. Decurrens [ante] 1316		Idem 1315	Idem 1303	SUB-ORDER 3. OSMUNDACEÆ. GENUS 62. OSMUNDA.	Idem - 2988	DER 4. SCHIZÆAC Genus 64. SCHIZÆA.	379 Idem 3105	GENUS 68. LYGODIUM	L. Circinatum, Sw. 1406
Genus 60.	380	980	088	380	980	381	381	380				980	381	3-ORD	379	Sub-order 4 Genus	828	GE	879
	Idem	New species	Idem	Idem	Idem	A. (Leptochilus) Variabile, Hooker	A. (Lept:) Querci- folium	A. (Heteroneuron) Virens		A. (Leptochilus) Lanceolatum, Hk.	New species	Idem	Idem	Sui		Su			
	198		239	249	251	277	279	261		276		266	280						
	10		20	20	20	70	20	20		10		ಸಂ	70						021073
	А. (Егленостовзум) Сомговме Sw .	A.(,,) Spathu- LATUM Bory	1~.	A. (Stenochlæna) Scandens J. Sm.	A. (EGENOLFIA) APPENDICULATOR TUM IVIIId.	A. (GYMNOPTERIS) VARIABILE Hook.	A. (,,) QUERCIFO- LIUM Retz.			A. (CHRYSODIUM) LANCEOLA- TUM Hook.	A. (· ,,) Walli, Baker	A. (,,) AUREUM, L.	A. (Hymenolepis) Spicatum, L .		O. Javanica Blume		S. (ACTINOSTACHYS) DIGITATA Sw.		L. Dіснотомим Sw.
	-	500	65	89	84	95	97	107		109		127	1279		H		16		c ₂

HABITAT, ETG.	Extremely common in all the low country, scrambling over small jungle.	Common about Colombo, scrambling over hedges and low shrubs.		Common in the forests of the Central Province, 3000 to 5000 ft. Terraneous.		Not uncommon in the forests of the Central Province, above 5000 ft., in the beds of streams.			On patnas about Bambragalla, Matale.	About Newera Ellia plain, in the open.	on trees as low clevations		In the hedge-banks about Colombo, and other parts of the Western and Southern Provinces.		Not uncommon on the borders of streams in the forests of the Central Province, 2500 to 4000 ft. Terraneous. Dies off during part of the year.	Common under bushes on the plain of Newera Ellia. Dies off in January, and springs about June.
Beddome's Ferns of British ${\cal C}$ Southern India. Vol. [PLAIT]	S 61 Idem	S 63 L. Flexuosum, Sw.	IACEÆ. ERIS.	S 78 Idem	ria.	S 79 Idem	PHIOGLOSSACEÆ.	SSUM.	S 71 O. Parvifolium, L.	S 72 0. Brevipes, Bed.	5 269 Idean	ELMINTHOSTACHYS.	S 69 Idem	IIUM.	S 68 B. Subcarnosum, Wall.	S 67 Idem. Var. Lanu-ginosum, Moore
Thwaites' Enumeratio.	379 Idem 1404	379 L. Japonicum, Sw. 1405	Sub-order 5. MARATTIACE Æ. Genus 69. ANGIOPTERIS.	879 Idem 1407 S	GENUS 70. MARATTIA.	379 M. Sorbifolia, Sw. 3147	SUB-ORDER 6. OPHIOGLO	GENUS 73. OPHIOGLOSSUM.	Addenda - 3993	378 Idem - 1408	1378 Idean 1409	GENUS 74. HELMINTHO	378 Idem 1411 S	GENUS 75. BOTRYCHIUM.	378 Idem 1410	378 Idem 3266
Hooker's Species Filicum.			Σ.				Sub-					9				
Hooker & Baker's Synopsis Filicum.	L. Scanden	10 L. Pinnatifidum Sw.	•	1 A. Evecta Hoffm.		1 M. Fraxinea - Smith			4 O. Nudicaule L.	5 O. VULGATUM L.	8 0 Pendulum In		1 H. Zeylanica Hook.		5 B. Daugifolium Wall.	6 B. Virginianum Sw.

Note. - Several of these ferns disappear at certain times, and some are only in fruit at particular seasons; the collector should therefore be forewarned that he may so time his search as to save future and more extended work on the Ferns of Ceylon, the periods of springing, dying off, and flowering of all those species which have particular seasons will be more completely indicated. In this disappointment. It would, for example, be vain to seek for Botrychium Virginianum from January to April at Newera Ellia, though it is abundant there during the remaining months of the year. In a present sketch the indications given are very partial and imperfect, but may nevertheless be of some use.

- CYATHEA HOOKERI, Thw.—When in fruit, the fronds of this fern are apt to disappear in an unaccountable way; probably they are devoured by some animal. The plant is shy of fruit, and therefore collectors should not miss a chance.
- DIACALPE ASPIDIOIDES, Bl., is scarce in the locality where it was first discovered, Blackpool, Newera Ellia, but is abundant and of much bolder growth at Kooroonda Oya, Mattoorattoo.
- HYMENOPHYLLUM EXSERTUM, Wall, is variable. None of the Ceylon forms of the plant agree closely with the figure in Hk. Sp. Fil., the pinnæ of which are distant and the sori few, whereas in some of our Ceylon ferns the sori are very copious, and in all the pinnæ are more or less close.
- Hymenophyllum Polyanthos, Sw.—The extreme forms of this very variable fern are very distinct, but they are connected completely by intermediate forms. The typical form of Swartz's plant is found at Condagalla, above Rambodde, and the variety Blumeanum of Sprengel is abundant in the forests of Mooroowa Corle. Intermediate forms are to be found at Vicarton, Matale, and at the Peacock, Pusilawa. The species is described in Hk. Syn. Fil. as "wingless," but nearly all my specimens are winged, some to the very base of the stipes.
- Hymenophyllum Neesii, Hk., has hitherto passed in Ceylon for H. Tunbridgense, a fern which does not exist there. It possesses, in common with H. Tunbridgense, the marked character of very sharply serrated margins, but is in other respects distinct, especially in being strongly crisped. Major Beddome figures our plant correctly in his 'Ferns of Southern India,' plate 265, but calls it H. Tunbridgense, and attaches to his figure Hooker's description of that species. There are no specimens from Ceylon in the Kew Herbarium, either of H. Tunbridgense or of H. Neesii.
- Trichomanes Muscoides, Sw., is not uncommon in the higher forests, and is very variable. I cannot distinguish from it T. Neilgherriense or T. Henzaianum, of both of which I possess typical specimens. They seem to be identical with some of our varieties of T. Muscoides.
- Trichomanes Proliferum, Bl., is not common. The only typical specimens I have seen were found in the southern province. Dr. Thwaites gives Ambagamoa as its habitat, which is very probably correct; but many of the specimens sent to Kew from Peradeniya under this name are pronounced by Mr. Baker to be T. Pyxidiferum. It has often been remarked in Ceylon that T. Proliferum was very rarely proliferous, but it does not seem to have been suspected that the fern most commonly known as such was, in fact, of another species, until very lately. Very careful examination of my specimens, and comparison with those at Kew, satisfied Mr. Baker, however, that such was the case; and a very large proportion of what had been regarded in Ceylon as belonging to this species are truly T. Pyxidiferum, L.

- TRICHOMANES DIGITATUM, Sw., enters into our list in place of *Hym. Corticola*, Hk., which Mr. Baker finds to be identical with it. The older name therefore prevails.
- Trichomanes Filicula, Bory.—Ceylon specimens of this species have nearly always copious spurious venules, stipes winged to the base, and the wing of the stipes ciliated, characters not in accordance with the description in the Synopsis.
- Trichomanes Pyxidiferum, L., is a very variable plant both in Ceylon and elsewhere, but particularly so in Ceylon. In the southern province specimens are found so small as to be mistaken for T. Parvulum. At the top of Telgamma Pass, above Hoolankanda, it has been found with fronds three to four inches long, and not more than half an inch broad. Between these extremes it is to be found in every intermediate form. It is distinguished from T. Proliferum by the absence of the proliferous character, and by drying flat and smooth, instead of shrivelling as that species always does.
- Trichomanes Exiguum, Beddome, was discovered in the Telgamma forests by Mr. T. N. W. Beckett, and has since been found abundantly in the southern province and Saffragam. It is distinguished from very small forms of T. Muscoides, which it strongly resembles, by the large, wide-open mouth of the involucre, which is quite free from, and beyond the edge of, the frond, and also by long straggling deciduous hairs on the margin.
- DAVALLIA (HUMATA) PEDATA, J. Sm., and Vestita, Blume, seem to be one species, the extremer forms of which are so mingled and connected in different specimens that they cannot be distinguished by any constant characters. Specimens found a year ago at Ambawella by Mr. Wynn combine the characters of both species so completely that they may with equal propriety be assigned to either. In the extreme forms of these species, the most obvious difference is in the cutting, but in this respect the extremes are completely connected by every intermediate form possible. Both species are figured in Hooker's Sp. Fil., plates 41 and 45, and in these figures the distinguishing characters (apart from the cutting) appear to reside in the form of the involucre, and in the scaly character of the stipes. Beddome's figures also make the species differ from each other in these two characters; but they are inversely referred to the two species by these authorities. Beddome's figure of Pedata has the involucre globose, and that of Vestita funicular. In Hooker's figures these forms are reversed. The form of the involucre may probably depend on the development of the fruit within, and be more or less tumid accordingly. A careful examination of many specimens, and comparison with the suites of both species at Kew, afford no means of distinguishing between the two forms by any constant character, or combination of characters.
- DAVALLIA PULCHRA, Don.—There seems to be some doubt as to this name. Our Ceylon fern is that figured in Hooker's Sp. Fil., plate 51, under the name of D. Chærophylla, Wallich.
- LINDSAYA FLABELLULATA, Dry., is not uncommon in the forest of the central and southern provinces, and exists in every form intermediate between that of typical Flabellulata and typical Tenera. Dr. Thwaites, in his 'Enumeratio,' suggests the probability of their being varieties of one species; and copious specimens collected in different parts of the country confirm that view. They are united in the Synopsis.

- LINDSAYA NITENS, Blume.—The simple form L. Recurvata is rare in Ceylon. It is found in the southern province.
- LINDSAYA LANCEOLATA, Lab.—The simple fronded form L. Griffithiana occurs in the southern province, growing along with the typical form. At Etangwella, in Matale, this fern approaches L. Heterophylla, the pinnæ being very distinctly again pinnate, but the pinnules are rounded, and have no main vein. In this respect they differ from the typical form of L. Heterophylla, and are probably distinct.
- LINDSAYA HETEROPHYLLA, Dry.—The true typical form of this species, as distinguished from the abnormal form of *L. Lanceolata*, above mentioned, is rare. The venation is distinctly anastomosing; therefore the fern is a true *Schizoloma*, in which our species differs from that figured by Beddome.
- ADIANTUM CAUDATUM, L., varies considerably from the densely villous, typical form, to the almost glabrous form of A. Rhizophorum; and from the almost entire form of pinna of A. Edgworthii, Hk., to the Matale type, in which the pinna is cut down nearly to the rachis. Specimens of all intermediate forms exist at Kew, and they are therefore united under one species in the Synopsis.
- CHEILANTHES MYSURENSIS, Wall., attains a most luxurious growth on the road from Rattotta to Oodelamana, with fronds 18 inches in height.
- CHEILANTHES THWAITESH, Kuhn.—Dr. Kuhn, 'Linnæa,' vol. xxxvi., p. 82, is of opinion that our Ceylon species, hitherto referred to C. Varians, Hk., is, in fact, distinct; and, as Mr. Baker agrees in this opinion, the new name is adopted in my list on their authority. My own specimens of the typical Himalayan plant do not enable me to discover any specific difference between the two. The Ceylon plant is said to have a tendency to be white farinose underneath.
- Pteris Hookeriana, Agardh., regarded by Dr. Thwaites as a variety of *P. Cretica*, is distinguished by its having a distinct involucre independent of the edge of the frond. The involucre of *P. Cretica* is the revolute margin of the frond. This character is constant in the specimens at Kew, and in very numerous other specimens to which reference has been made. The species seems otherwise distinct, and is so regarded in the Synopsis.
- Pteris Quadriaurita, Retz, is extremely variable. In its simplest form it resembles P. Crenata in having its pinnæ quite entire. Between this and the typical form of the plant, there exists in Ceylon every possible intermediate form. Perfectly simple and partly compound forms have been found growing from the same caudex. The greatest variety may be found in the Matale and Kurunagalla districts. One of these abnormal forms is figured by Beddome, who regarded it as a new species, and called it P. Otaria. Some specimens very closely resemble P. Semipinnata, from which species, however, all the forms of P. Quadriaurita are distinct. A specimen sent to Kew from Peradeniya by Gardner, under the name of P. Semipinnata, is clearly one of these abnormal forms of Quadriaurita. This specimen being the only authority for attributing the species to Ceylon, it is omitted in this catalogue.

- Pteris Biaurita, L.—The Campterian character of this plant is said to be sometimes wanting. It is worthy of note, as distinguishing this species from *P. Quadriaurita*, that it is not subject to the very remarkable variations which characterise that species. It remains constant to its typical form elsewhere as well as in Ceylon.
- Pteris (Campteria) Patens, Hk.—The Campterian venation in the deeply cut specimens in Ceylon is only to be observed in the very top of the frond, where extremely elongated costal arches are to be found quite close to the main rachis.
- ASPLENIUM VULCANICUM, Bl., seems distinct from A. Wightianum in habit, texture and colour. The two species do not appear to be connected by intermediate forms in the herbarium at Kew, nor have I seen the connecting forms mentioned by Dr. Thwaites in his 'Enumeratio,' p. 383. About Newera Ellia some sportive forms of this species are to be found, in which the lobes at the points of the pinnæ are prolonged fantastically to an inch or more in length by about a line in width.
- ASPLENIUM ERECTUM, Bory.—Of this very variable plant we have only the simple typical form, and that known as A. Lunulatum, of Swartz, a broader fronded plant with bolder pinnæ less deeply cut than the common plant. This latter is found in the forests of East Matale (Beckett).
- ASPLENIUM FALCATUM, Lam., is a very variable plant, distinguished from A. Caudatum (which it often closely resembles, in the form and cutting of its fronds), by its long parallel, oblique sori, extending often from near the midrib to near the margin of the pinnæ. Several of our Ceylon forms of this species are indistinguishable from A. Macrophyllum as figured by Hooker, plate 197, Sp. Fil., and by Beddome, F., South India, plate 142.
- ASPLENIUM CAUDATUM, Forst., is distinguished from the foregoing species by its two parallel rows of sori close to the rachis, in addition to which it has often other short oblique sori. It is very variable in regard to the shape and cutting of the pinnæ.
- Asplenium Gardneri, Baker.—This plant has been hitherto known in Ceylon as A. Macrophyllum, but a careful comparison of our species with all the forms of A. Macrophyllum represented in the Kew Herbarium seems to prove it to be distinct. Gardner's specimen represented the plant imperfectly. Better specimens since received exhibit the character of the species more fully. Mr. Baker calls it A. Gardneri, and the old name A. Macrophyllum, therefore, disappears from our Ceylon list.
- ASPLENIUM RESECTUM, L., is a very variable fern, the extreme forms of which differ very widely from each other, but are connected by intermediate forms. The greatest divergence from the typical characters is in a plant found in wet places in the high forests about Oodapussilawa. The stipes of this plant is thick and fleshy, the frond varies from six to eight inches in length, and the pinnæ are very large in proportion, being two inches long, and fully half an inch in width.
- ASPLENIUM MACROCARPUM, Bl.—The several forms of this plant are all found growing in the same localities about Newera Ellia, and are well connected. The amplest fronded forms grow in the shade of dense forest.

- Asplenium Nigripes, Bl., embraces a wide range of plants of seemingly very different types. The smallest has a deltoid frond not more than six inches each way, and is common in the forests about Newera Ellia. The next, in point of size, has an oblong-lanceolate frond about twelve inches in length, closely resembles A. Filix-Fæmina in cutting, and is distinguished by long reddish spines on its rachis; this also grows about Newera Ellia, and is not uncommon. The largest attains a height of five to six feet, and grows on the banks of streams. This is A. Gymnogrammoides of Klotsch, as figured by Beddome (F. S. I.), plate 156. These forms differ from each other in important characters, besides the great disparity of size, such as the cutting and form of the pinnules, and in the colour and shape of the scales at the base of the stipes. They do not seem to be sufficiently connected by intermediate forms to be included under one species.
- ASPLENIUM (DIPLAZIUM) SYLVATICUM, Presl.—The largest forms of this fern approach so closely in appearance to the simple form of *Latifolium* as to be hardly distinguishable.
- ASPLENIUM (DIPL.) MAXIMUM, Don.—There seems to be some difficulty in precisely defining this species. Beddome's plant, *Dipl. Decurrens*, seems to be well marked. Other types included under this species at Kew do not seem to be so well defined. Some of my Ceylon specimens are left in doubt. Mr. Baker thinks they may be of a distinct species.
- ASPLENIUM (DIPL.) ASSIMILE, Endl.—It seems clear that our Ceylon plant, hitherto known as A. Australe, cannot properly be included in that species, as it is not only different in the form and cutting of the frond from the typical forms of that plant, but is undoubtedly a Diplazium. Diplazioid involucres occur copiously in all parts of our specimens. The name is here adopted on the authority of Beddome, and the old name A. Australe is omitted from the present list of Ceylon ferns.
- ASPIDIUM (POLYSTICHUM) CONIFOLIUM, Wall., having an erect caudex, seems specifically distinct from A. Aristatum, a smaller plant with a creeping rhizome.
- NEPHRODIUM (LASTREA) CALCARATUM, Hk.—A very small and seemingly distinct form of this plant is found in the southern province at low elevations, C. P., 992. The pinnæ have almost entire edges, and are extremely narrow and acuminate. This extreme form is connected by intermediate forms up to the bold plant, with deeply lobed pinnæ, which grows at Newera Ellia, C. P., 3273.
- Nephrodium (Lastrea) Sparsum, Don.—If all the varieties presently included under this species are properly assigned thereto, it must be regarded as one of the most variable. It appears, however, to contain several distinct types, not fully connected together, and which it would be convenient to distinguish under separate names. Adopting Hooker's figure of N. (L.) Purpurascens, plate 262, vol. iv. Sp. Fil., and C. P. 1369, as the typical form, (= Nephrodium Sparsum of Don and Aspidium Nitidulum of Wallich), the form figured by Beddome as Lastrea Deltoidea (C. P. 1368) is remarkably distinct; the pinnules at the base of the pinnæ, both above and below, being reduced, whilst in the typical and other forms these pinnules are the largest. This type is found in Mooroowa Corle. Another very distinct type, found at Blackpool, Newera Ellia, C. P. 4007, resembles closely the fern figured by Beddome as Lastrea Pulvinulifera. Our plant differs from his figure, and still more widely

from the type of *Deltoidea*, in having the basal pinnules, both above and below, much the largest, and often again pinnate. This character, and the cushion-like mass of long bright, silky scales at the base of the stipes, give it a striking and distinct appearance. A third type is that now named by Mettenius and Kuhn Linnæa, vol. xxxvi., p. 119, *Aspidium Obtusissimum*. It is distinguished by its broad, rounded lobes and pinnules, and has its stipes clothed at the base with light brown chaffy scales, very different in character from the dense mass of long, acuminate, silky scales of the previously mentioned type. These types, though subject to such variations as are common to all species, do not appear to be so connected by intermediate links as at any time to lose their distinctive characters. There is yet another form, of which I have seen only three specimens; but as they are extremely small, it may be that they are stunted and abnormal.

- Nephrodium (Lastrea) Undulatum, Baker, has yet been found only in one locality, the upper cone of Wattakelly Hill. It there occurs both with and without the undulated stipes and rachis which form its distinctive character. Near the foot of the cone slightly undulated and perfectly normal fronds are often found on the same plant. Higher up the hill the undulated character becomes more strongly marked, and is to be found in its extreme development in plants growing between the tufts of grass near the summit. It does not appear, therefore, that this undulated character can be safely regarded as constituting a specific distinction, and in that case the plant must be comprised with *Purpurascens*, the typical form of *Sparsum*.
- Nephrodium Hœnkeanum, Presl, is included in this list on the faith of a specimen, numbered C. P. (53), from Ceylon, in the herbarium at Kew. It is very probable the plant may not lately have been distinguished from other members of this most troublesome group, amongst which there is a general and often puzzling resemblance.
- Nephrodium Amboinense, Presl, is a variable plant. As it grows about Kitoolgalla, it is twelve to eighteen inches high, and its pinnæ are deeply serrated but scarcely lobed. As found about Oodapusselava and Ambawella, it is of much larger growth, attaining a height of four feet, and its pinnæ are cut a third of the way down into bluntish, scarcely falcate lobes. Dr. Thwaites regards this latter plant as one of the numerous and perplexing varieties of the Molle group. It is included under N. Amboinense in this list, on the authority of Mr. Baker. It is rather more deeply cut and developed than the typical specimens of the species in the Kew Herbarium, but has the character well marked. It would be interesting to find a good series in Ceylon connecting the extreme forms found in the localities indicated.
- Nephrodium (Sagenia) Decurrens, var. Minor, is a curious plant, bearing a distant resemblance to Acrostichum Quercifolium, with which Dr. Thwaites thinks it may be a hybrid. It would seem more probably one between Decurrens and Subtriphyllum, closely allied species, to both of which it bears a resemblance.
- Nephrodium (Sagenia) Simulans, Baker, is the plant figured by Beddome, in his 'Ferns of Southern India,' plate 244, under the name Sagenia Thwaitesii. It seems well distinguished from N. Giganteum by its texture, highly polished stipes, and general characters; but as there is already a Nephrodium Thwaitesii, Mr. Baker gives this species the name by which it is here designated.

- Polypodium Parasiticum, Mett.—Some specimens gathered about Hoolankanda, and erroneously referred to this species in my herbarium, are regarded by Mr. Baker as clearly distinct. They resemble very closely P. Australe, Mett., but it would be unsafe to refer them to that species without the confirmation of more numerous specimens. They differ from the typical form of P. Parasiticum in being of much thinner texture, and also in colour and general character. They have very much the appearance of a minute form of P. Zeylanicum. I have not seen the var. Pilosiuscula of Thwaites, except at Kew.
- Polypodium Thwaitesh, Beddome, is included with P. Repandulum, Mett., in the Synopsis, but is now recognized as a distinct species, being characterized by its having a creeping rhizome, whilst that of P. Repandulum is upright; and notably by its strong odour of rhubarb.
- Polypodium Minutum, Blume.—This fern was formerly referred to *P. Parvulum*, Bory, and subsequently to *P. Subfalcatum*, Blume. It seems, however, to belong properly to *P. Minutum*, and is so classified in the herbarium at Kew, for which reason it is so named in this list.
- Polypodium (Drynaria) Linnæi, Bory, does not seem to be specifically distinct from *Quercifolium*, but is retained here on the faith of specimens found in Ceylon which are considered to be typical.
- Meniscium Triphyllum, Sw.—The normal form of this fern is triphyllate; but it departs widely from that type in some localities and cases, approaching sometimes so closely to the least divided forms of M. Thwaitesii as to be mistaken for that species. It is curious that the least divided forms of M. Thwaitesii are found in East Matale, on the same range of mountains, but on the opposite side of the range, where the most divided forms of M. Triphyllum grow. On this range, therefore, the two forms approach each other most closely. The pinnæ in both forms are of two kinds: the lowest are patent and acuminate, the upper ones point upwards, are blunt, and often falcate. The terminal pinna in both species, but especially in Thwaitesii, has a tendency to become pinnatifid, or divided more or less into lobes, which gradually pass below into the form of the upper pinnæ, and become sometimes stalked. It seems probable, therefore, that the lower, acuminate, regular pinnæ are the only true ones, and that the upper, blunt ones, are mere lobes or divisions of the terminal pinna.
- Antrophyum Plantagineum, Klf., seems to me to be very doubtfully distinct from Reticulatum, and these from Semicostatum. The only characters which are relied on as distinguishing the species respectively, are the distinct, wingless stipes, and broad, irregular form of Plantagineum,—the winged stipes, and narrower, longer frond of Reticulatum,—and the semicostate character of Semicostatum. Dr. Thwaites considers the best distinguishing character of Reticulatum to be its very numerous barren sporangiastra, which, in some instances, give the sori for a considerable length the appearance of a velvet pile. If Semicostatum were recognized as a distinct species, Demi-semicostatum would have an equal claim to be also distinguished.
- VITTARIA LINEATA, Sw., has its fruit in some cases so closely resembling V. Elongata as to lose the Tæniopsis type altogether. None of the Ceylon species which I have seen have their sori completely independent of the outer margin of the frond. In some plants found

- at Mooroowa, the outer margin or involucre is so extended and doubled back as to give the appearance of an extension of the frond beyond the line of the sorus, as in *Tæniopsis Falcata*; but even in this case the sorus, though submarginal for the greater part of its length, approaches and runs into the margin as it terminates. None of the Ceylon specimens seem to conform to the true type of *Tæniopsis*.
- Acrostichum Conforme, Sw.—Under this species several varieties are comprised. In Ceylon there are two types, distinguished in Thwaites' 'Enumeratio' as A. Laurifolium, Thouars, C. P. 1310, and A. Marginatum, Wall., C. P. 1311. The former is now made into a new species, under the name A. Commutatum, Mettenius, Ann. Mus. Leyd., vol iv., p. 292. Specimens of this species, collected on Wattakelly Hill, have the stipes of the barren frond winged to the base, and that of the fertile frond much longer. But I am not certain that these characters are constant, or that they distinguish the new species.
- Acrostichum Acutum, Fée, MSS., is the plant which has hitherto been known in Ceylon as Acrostichum Spathulatum, Bory, of which Mr. Fée makes a new species, and, as Mr. Baker adopts his view, the plant appears under its new name in this list.
- Acrostichum Virens, Wall., is very variable, but the different forms of our Ceylon specimens are not considered separable. The form most nearly resembling A. Repandum, of Blume, and which Dr. Thwaites refers to that species, is considered to be a form of A. Virens, as is also the form A. Hookerianum of the 'Enumeratio,' though the two certainly appear very distinct. The pinnæ of the latter are much narrower, and their edges are deeply sinuated, whereas in the barren fronds of the former the edges are entire. The venation of the two forms is also different. In the former, the main veins are straight and fine, and the veinlets unite midway between them, rarely forming areolæ except in the long, terminal proliferous pinna. In the latter, the veins are all very conspicuous, especially the main veins, which are undulated, and the veinlets anastomose irregularly, forming copious areolæ.
- Acrostichum Lanceolatum, Hk.—Dr. Thwaites does not regard our plant as distinct from A. Variabile, Hk. It bears a very close resemblance to some of the simple forms of that plant, and its venation sometimes approaches nearly to that of Gymnopteris. It is not subject, however, to the remarkable variableness of A. Variabile, but remains constant to its simple typical form.
- Acrostichum (Chrysodium) Wallii, Baker.—Dr. Thwaites regards this fern as a variety of the extremely variable species A. Variabile, but it differs widely from any specimen of that species and its allies in the herbarium at Kew, and has therefore been separated from them. It was found in a ravine, near Mooroowakka, in the Southern Province, and has not yet been discovered in any other locality. Numerous specimens present very constant and marked characters, which seem to distinguish them from all previously recognized species.
- Ophioglossum Vulgatum, L.—We have two allied species of Ophioglossum in Ceylon, one resembling the figure of O. Ellipticum, Hk. and Gr., pl. 40, and included under the species O. Nudicaule; the other well represented by Beddome's figure of O. Brcvipes, which would seem to be comprised under O. Vulgatum. Neither of these plants is typical; but, as the species are very variable, they are probably well classed under the species named.

The following are species which have been attributed to Ceylon, but are now either discarded or doubtful:—

- 56. Davallia (Microlepia) Marginalis.—No specimen of this species from Ceylon exists in the herbarium in Kew, nor is it known in Ceylon. There does not appear to be any authority for regarding it as a Ceylon species.
- 5. Pteris Pellucida, Presl.—The specimen from Ceylon in the Kew Herbarium under this name is undoubtedly P. Hookeriana, Agardh.
- 7. Nephrodium (Lastræa) Cuspidatum, Baker.—Of this fern there is a specimen at Kew, sent by Dr. Gardner, numbered 1256, respecting which there must be some mistake, as that number is represented in the Peradeniya Herbarium by a plant of another genus, Mangifera Indica. All the other specimens are Himalayan, and it is worthy of remark that the specimen figured by Beddome, pl. 118 of his 'Ferns of British India,' though grown in Khasiya, was received by him from the Ceylon Herbarium! The plant is certainly Himalayan, and is not now known in Ceylon.
- 16. Pteris Semipinnata, L.—The specimen from Ceylon in the Kew Herbarium under this name is undoubtedly one of the numerous varieties of P. Quadriaurita, Retz.
- 180. Nephrodium Abortivum, J. Sm.—There seems to be no authority for attributing this fern to Ceylon.
- 71. Polypodium (Goniopteris) Lineatum, Coleb.—There is a solitary and very imperfect specimen of this fern at Peradeniya, but it is otherwise unknown in Ceylon. There is a specimen at Kew from Mrs. Walker; but, as no specimen has been found by Dr. Thwaites and his indefatigable collectors, nor by any living collector, it can scarcely be included amongst existing Ceylon species.
- 139. Polypodium Parvulum, Bory.—The plants which have been so called are now referred to Repandulum and Minutum.
- 167. Polypodium Fuscatum, Bl., is represented at Kew by a specimen from Ceylon with the C. P. number, 1289, which is the number properly belonging to P. Glandulosum. There is some mistake here, and the species Fuscatum is not known by that or any other number at Peradeniya.
- Pol. (Niph.) Acrostichoides, Forst.—A specimen from Ceylon of this species, at Kew, is four feet long by about half an inch wide, and fertile for a great part of its length. It is highly improbable that a fern of such remarkable character should have escaped the observation of all living collectors; nor is it likely that such a species would have been exterminated by the extensive coffee clearings. It seems more probable that it is not a Ceylon species, and that Gardner's specimen of this fern, like that of N. Cuspidatum, came from some other country.
- Pol. (Phym.) Heterocarpum, Bl.—It is possible that this fern has been mistaken for P. Membranaceum, as they run very closely into each other. It is not known by Dr. Thwaites.

Gymnogramme Aspidioides, Hooker. Acrostichum Viscosum, Sw.

The foregoing remarks on Neph. Cuspidatum are probably equally applicable to these two species, which have been assiduously but vainly sought in Ceylon for many years. Gardner's specimen of A. Viscosum, at Kew, is without reference number.

Acrostichum Axillare, Cav., is not a Ceylon species. There is no specimen from Ceylon at Kew, and it does not appear how it came to be attributed to Ceylon.

ADDENDA TO THE 'ENUMERATIO.'

From a Manuscript kindly given by Dr. Thwaites.

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LIST OF SPECIES PECULIAR TO CEYLON.

Cyathea Sinuata, Hk. and Gr.

" Hookeri, Thw.

Hemitelia Walkeræ, Hooker.

Trichomanes Exiguum, Beddome.

Davallia (Microlepia) Majuscula, Lowe.

Cheilanthes Thwaitesii, Kuhn.

Pteris Hookeriana, Agardh.

Asplenium (Dipl.) Zeylanicum, Hooker.

" (Dipl.) Thwaitesii, A. Br.

" (Aniso.) Smithianum, Baker.

Aspidium (Polyst.) Anomalum, Hooker.

Nephrodium (Lastrea) Undulatum, Baker.

" (Lastrea) Thwaitesii, Baker.

Nephrodium (Lastrea) Obtusilobum, Baker.

" (Lastrea) Walkeræ, Hooker.

" (Sagenia) Decurrens, var. minor.

" (Sagenia) Simulans, Baker.

Polypodium Zeylanicum, Mett.

" Cornigerum, Baker, 4005.

" Glandulosum, Hooker.

" Thwaitesii, Beddome.

" Repandulum, Mett.

" (Niph.) Gardneri, Mett.

Meniscium Thwaitesii, Hooker.

Acrostichum Acutum, Fée.

" (Chrysodium) Wallii, Baker.

EXPLANATIONS OF ABBREVIATIONS USED IN THE CATALOGUE.

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Agardh, Professor of Botany at Stockholm.
Ag.
Baker -
                          J. G. Baker, Curator of Kew Herbarium.
Bedd. -
                          Major Beddome, Conservator of Forests, Madras.
Bernh.
                          Bernhardi, Professor of Botany at Erfurt.
Bory. -
                          Bory de St. Vincent, French Botanist.
                           W. D. Brackenridge, Botanist.
Brack.
R. Br. -
                           Robert Brown, celebrated English Botanist.
                           A. Brongniart, French Botanist.
Brong.-
Burm. -
                           J. Burmann, Dutch Botanist.
Cav. -
                           A. J. Cavanilles, Professor of Botany at Madrid.
Desv. -
                           N. A. Desvaux, French Botanist.
Don. -
                           D. Don, Professor of Botany at King's College.
Dry. -
Endl. -
                           Jonas Dryander, Librarian to Sir J. Banks.
                           Endlicher, Professor of Botany at Vienna.
Fée -
                           A. W. Fée, Professor of Botany, Strasburg.
Fisch. -
                           Fischer, a Russian Botanist.
Forsk. -
                           P. Forskahl, Danish Botanist.
Forst. -
                           J. R. Forster.
Hoff. -
                           G. H. Hoffman, German Botanist.
Hk.
                           Sir W. J. Hooker, late Director of the Royal Gardens, Kew.
Hk. and Arn.
                           Hooker and Arnott.
Hk. and Gr.
                           Hooker and Greville.
J. Sm.-
                           John Smith, late Curator Royal Botanic Gardens, Kew.
Kaulf. -
                           G. F. Kaulfuss, Professor of Botany, Leipsic.
 Klot. -
                           Dr. Klotsch, German Botanist.
 Kuhn. -
                           Dr. Kuhn, Berlin.
 Kunze, Kze.-
                           Kunze, Professor of Botany, Leipsic.
 Labill - -
                           J. J. Labillardière, French Traveller.
 Lam. -
                           Lamarck, celebrated Naturalist.
 Lang. and Fisch. -
                           J. G. Langsdorf, a Russian Botanist.
 Linte -
                           H. F. Linte, Professor of Botany, Berlin.
 Linn. or L. -
                           Linnæus, celebrated Naturalist.
 Mett. -
                           Dr. Mettenius, Professor of Botany, Leipsic.
 Moore -
                           T. Moore, Curator of Chelsea Ap. Garden.
 Poir. -
                           Poiret, French Botanical Compiler.
 Presl -
                           C. B. Presl, Professor of Botany, Prague.
 Raddi -
                           J. Raddi, German Botanist.
 Retz. -
                           A. J. Retzius, German Botanist.
 Reinw.
                           Reinwardt, Professor of Botany, Leyden.
 Rich. -
                           L. C. Richard, writer in Guiana.
 Roth -
                           A. G. Roth, German Botanist.
 Roxb.
                           Dr. Roxburgh, English Botanist.
 Schk. -
                           C. Schkuhr, Dutch Botanist.
                           Dr. Schlechtendahl, Professor of Botany, Berlin.
 Schlecht.
                           H. Schott, Director Royal Gardens, Vienna.
 Schott -
 Sieber -
                           Sieber, German Botanist.
                           Sir John Smith, celebrated English Botanist.
 Sm. -
 Spreng.
                           C. Sprengel, Professor of Botany, Halle.
 Sw.
                           Olaf Swartz, Swedish Botanist.
 Thunb.
                           P. Thunberg, Dutch Botanist.
                           G. H. K. Thwaites, Director Botanic Gardens, Ceylon.
 Thw. -
 V. D. B.
                           Van Den Bosch.
                           Dr. N. Wallich, late Director Royal Gardens, Calcutta.
 Wall. -
 Willd. -
                           C. L. Willdenow, Professor of Botany, Berlin.
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POSTSCRIPT.

Since the foregoing pages were printed, Mr. Baker has kindly informed me of the following revisions of our Ceylon ferns for the second edition of the Synopsis now in preparation.

- DAVALLIA TRICHOMANOIDES, Bl.—There has been some uncertainty about the original type of this species, but it is now identified, and our Ceylon species is found to be very distinct. It is named Dav. Schizophylla, Baker.
- Asplenium Persicifolium, J. Sm.—Our Ceylon species is A. Zenkerianum of Kunze, and is now regarded as distinct from the typical form of the Phillipine-Island original, differing therefrom in its shorter sori, entire edge and less woody stipes.
- Asplenium Japonicum, Thunb.—The Japanese type of this species resembles very closely our Aspl. Thwaitesii, insomuch that the only present representative of the species at Kew from Ceylon was sent by Dr. Thwaites as a "large form" of Thwaitesii, and with the same C.P. number, 1343. This number therefore represents both species in part, if, in fact, the two are really distinct. C.P. 3951, mentioned in the list of Dr. Thwaites' addenda, page 11, as Aspl. Decussatum, Wallich, and hitherto referred to A. Japonicum, is a good species, differing from Japonicum chiefly in having an erect caudex. As there is already an Aspl. Decussatum, however, Mr. Baker gives the Ceylon species the name of A. Polyrhizon, owing to its dense mass of wiry roots. This is the species figured by Beddome in plate 292 of his 'Ferns of Southern India.'

Another Ceylon species included under Japonicum in the first edition of the Synopsis, will appear in the second as A. Schkuhrii, Thwaites. This plant has also an upright caudex. Its C.P. number is 3100, and it is figured in Beddome's 'Ferns of Southern India,' plate 230. To me this seems to run too close to some forms of the very variable species Dipl. Decurrens of Beddome, which = A. Maximum, Don.

- Polypodium Parasiticum, Mett.—The fern mentioned in the note at page 7 will appear as *Pol. Mediale*, Mr. Baker having decided, after a careful inspection of all my specimens, that it cannot be safely included under *P. Australe*, owing to the situation of the sori being further from the midrib than in that species.
- Polypodium Lingua, Sw.—Dr. Kuhn describes our plant as a new species under the name of *Pol. Pannosum*, Mett. (Linnæa, vol. xxxvi. p. 141), which is distinguished from the typical *Lingua* of Japan by its sori, which fall (sometimes considerably) short of the edge of the frond. Its vestiture, which has no doubt suggested its name, is also closer and finer than in *Lingua*. Mettenius and Kuhn separate the Himalayan *Lingua* as a third species, under the name of *Heteractis*.
- Acrostichum Spathulatum, Bory.—The note at page 8 was written under the impression that Mr. Baker admitted the new species A. Acutum as distinct, but that is not his opinion, and our species remains in the Catalogue as before.

These revisions cause the following changes in the foregoing Catalogue, viz.:—

Davallia Schizophylla, Baker, vice D. Trichomanoides, Hk.

Asplenium Zenkerianum, Kunze, vice A. Persicifolium, J. Sm.

Additional species:-

ASPLENIUM POLYRHIZON, Baker.

ASPLENIUM SCHKUHRII, Thwaites.

POLYPODIUM MEDIALE, Baker.

All peculiar to Ceylon.

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